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(71) Applicant (for all designated States except US): **GENOVA LTD.**; Canon's Court, 22 Victoria Street, Hamilton HM12 (BM).

(71) Applicant (for AT only): **NOVARTIS PHARMA GMBH** [AT/AT]; Brunner Strasse 59, A-1230 Vienna (AT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BOUGUELERET, Lydie** [FR/CH]; GeneProt, Inc., 2, Pre-de-la-Fontaine, CH-1217 Meyrin (CH). **CUSIN, Isabelle** [FR/CH]; GeneProt, Inc., 2, Pre-de-la-Fontaine, CH-1217 Meyrin (CH).

(74) Agent: **GRUBB, Philip**; Novartis AG, Corporate Intellectual Property, CH-4002 Basel (CH).

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(54) Title: **SECRETED POLYPEPTIDE SPECIES ASSOCIATED WITH CARDIOVASCULAR DISORDERS**

(57) Abstract: The invention discloses human secreted polypeptides that circulate at an increased level in the plasma of patients with cardiovascular disorders. The invention also provides methods of using compositions including the polypeptides, polynucleotides encoding them, and antibodies specific for these polypeptides, for diagnosis, prognosis, and treatment of cardiovascular disorders.

WO 2005/003781 A3

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/007047

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01N33/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99/55858 A (SCHMITT ARMIN ; SPECHT THOMAS (DE); DAHL EDGAR (DE); HINZMANN BERND (D) 4 November 1999 (1999-11-04)	8-10
Y	abstract; sequence 307	11-13
A	page 393, paragraph 4	1-7,
	the whole document	14-20
X	WO 03/022992 A (SCHERING CORP) 20 March 2003 (2003-03-20)	8
A	sequence 22	1-7, 9-20
X	WO 02/079492 A (EOS BIOTECHNOLOGY INC) 10 October 2002 (2002-10-10)	8, 9
Y	page 37, last paragraph	11-13
A	paragraph [0002]; claim 17; sequence 30	1-7, 10,
	the whole document	14-20
	----- -/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Bigot-Maucher, C

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/007047

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p> DATABASE MEDLINE [Online] US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; July 1990 (1990-07), MASKOLIUNAS R K ET AL: "[Various characteristics of protein-synthesizing apparatus of the myocardium during total ischemia]" XP002302648 Database accession no. NLM2238536 abstract & VOPROSY MEDITSINSKOI KHIMII. 1990 JUL-AUG, vol. 36, no. 4, July 1990 (1990-07), pages 7-10, ISSN: 0042-8809 ----- </p>	1-20

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2004/007047

Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-7, 8-16 (partially), 18-20

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-7, 8-16 (partially), 18-20

method of screening for and /or diagnosis of or method of predicting or method of identifying a modulator of or method for monitoring efficacy of treatment of cardiovascular disorder using polypeptide comprising SEQ ID NO: 3, polypeptide comprising SEQ ID NO: 3 and its use for the prophylaxis and/or treatment of cardiovascular disorders or for identifying a modulator, antibody binding to said polypeptide and its use for the prophylaxis and/or treatment of cardiovascular disorder, method of binding said antibody thereto

2. claims: 8-16 (partially), 17

polypeptide comprising SEQ ID NO: 1 and its use for the prophylaxis and/or treatment of cardiovascular disorders or for identifying a modulator, antibody binding to said polypeptide and its use for the prophylaxis and/or treatment of cardiovascular disorder, method of binding said antibody thereto, polynucleotide comprising cDNA coding for a the polypeptide having the SEQ ID NO: 1

3. claims: 8-16 (partially)

polypeptide comprising SEQ ID NO: 2 and its use for the prophylaxis and/or treatment of cardiovascular disorders or for identifying a modulator, antibody binding to said polypeptide and its use for the prophylaxis and/or treatment of cardiovascular disorder, method of binding said antibody thereto

4. claims: 8-13 (partially)

polypeptide comprising SEQ ID NO: 4 and its use for the prophylaxis and/or treatment of cardiovascular disorders or for identifying a modulator, antibody binding to said polypeptide and its use in a method of binding to a cardiovascular disorder plasma polypeptide

5. claims: 8-13 (partially)

polypeptide comprising SEQ ID NO: 5 and its use for the prophylaxis and/or treatment of cardiovascular disorders or for identifying a modulator, antibody binding to said polypeptide and its use in a method of binding to a cardiovascular disorder plasma polypeptide

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

6. claims: 8-13 (partially)

polypeptide comprising SEQ ID NO: 6 and its use for the
prophylaxis and/or treatment of cardiovascular disorders or
for identifying a modulator, antibody binding to said
polypeptide and its use in a method of binding to a
cardiovascular disorder plasma polypeptide

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/007047

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